

THE CLAIMS:

1. A printing and display device comprising:
 - a. a flat panel display; and
 - b. a printer, including a printhead for printing onto paper;
 - c. the device being configured such that, during printing, the paper being printed passes between the flat panel display and the printhead, or passes behind the flat panel display and the printhead relative to a viewing position of the flat panel display.
2. A printing and display device as claimed in claim 1 wherein a viewable size of the printing and display device exceeds 40cm measured along a diagonal of the printing and display device.
3. A printing and display device as claimed in claim 1, wherein the printhead is disposed adjacent a lower edge of the flat panel display.
4. A printing and display device as claimed in claim 2, wherein the printhead extends horizontally, when the device is in use.
5. A printing and display device as claimed in claim 1, wherein the printer includes at least two the printheads, the printheads being disposed on either side of a path through which print media is fed for printing, thereby enabling substantially simultaneous printing of both sides of the print media.
6. A printing and display device as claimed in claim 1, configured to receive print data to be printed, and display data to be displayed, from a computer system.
7. A printing and display device as claimed in claim 5, wherein the printing and display device includes a connection configured to allow releasable operative connection of the computer system to the printing and display device, for receiving the print data and the display data from the computer system.
8. A printing a display device as claimed in claim 6, wherein the connection includes at least one socket for accepting at least one corresponding data cable.
9. A printing and display device as claimed in claim 6, wherein the connection includes a wireless receiver for receiving the print data and/or the display data.

10. A printing and display device as claimed in claim 6, wherein the connection is a Universal Synchronous Bus (USB) connection.
11. A printing and display device as claimed in claim 1, further including a paper feed mechanism for feeding paper to the printhead for printing, the printhead being arranged to print onto the paper.
12. A printing and display device as claimed in claim 1, wherein the paper feed mechanism is configured to position the paper substantially parallel in at least one direction with respect to a plane defined by the flat panel display.
13. A printing and display device as claimed in claim 10 or 11, wherein the paper feed mechanism is configured to accept a single sheet of paper at a time for printing.
14. A printing and display device as claimed in claim 10 or 11, wherein the paper feed mechanism includes a paper separator for feeding a single sheet of paper to the printhead from a stack of sheets of paper.
15. A printing and display device as claimed in claim 1, wherein the printer is a process color printer.
16. A printing and display device as claimed in claim 1, wherein the printer is an inkjet printer.
17. A printing and display device as claimed in claim 15, wherein the printer has more than 5,000 inkjet nozzles.
18. A printing and display device as claimed in claim 1 or 16, wherein the printer is a page-width printer.
19. A printing and display device as claimed in claim 1, wherein the flat panel display measures at least 14 inches on the diagonal.
20. A printing and display device as claimed in claim 1, including at least two of the printheads, the printheads being disposed on either side of a path through which the paper is fed for printing, thereby enabling substantially simultaneous printing of both sides of a sheet of paper.

21. A printing and display device as claimed in claim 1, configured to enable printing of standard A4 or Letter sized sheets of paper.
22. A printing and display device as claimed in claim 1, configured such that paper to be printed is fed manually into a paper path that directs the paper from a region adjacent the upper edge of the flat panel display, past the printhead for printing, then out of the device adjacent a lower edge of the flat panel display.
23. A printing and display device as claimed in claim 1, further including a curved paper guide disposed, when the device is in use, beneath the flat panel display, such that the paper that has been printed is urged horizontally as it exits the device.
24. A printing and display device as claimed in claim 1, wherein the flat panel display is of one of the following types:
- a. Liquid Crystal Display (LCD);
 - b. Field Emission display (FED)
 - c. Plasma Display Panel (PDP)
25. A printing and display device as claimed in claim 1, wherein the printhead is configured to receive halftoned print data to be printed onto the print media.
26. A printing and display device as claimed in claim 1, further including a halftoning unit for generating halftoned image data and supplying it to the printhead for printing.
27. A printing and display device as claimed in claim 1, wherein the printhead is configured to print photographic images.
28. A printing and display device as claimed in claim 1, wherein the printhead is configured to print image and text data.
29. A printing and display device as claimed in claim 5, wherein the computer system is a personal computer.

30. A printing and display device as claimed in claim 1 further comprising: a flat panel display for displaying images from a computer; and a printer, the printer including a printhead for printing onto the paper.
31. A printing and display device as claimed in claim 1 further comprising: a flat panel display for displaying images from a computer; a stand for holding the flat panel display in an operative position; and a printer, the printer including a printhead for printing onto paper; wherein the stand includes at least one receptacle configured to accept at least one replaceable ink cartridge for supplying ink to the printer.
32. A printing and display device as claimed in claim 1 further comprising: a data connection for receiving print data from a computer; a flat panel display for displaying images received from a computer; a printer, the printer including a printhead for printing onto paper on the basis of the print data; and a data connection hub configured to allow connection of at least one data-receiving device to the printing and display device, enabling the data-receiving device to receive data from the computer.
33. A printing and display device as claimed in claim 1 further comprising:
a flat panel display;
a printer, including a printhead for printing onto paper;
a multi-sheet paper holder;
a paper sheet separator configured to separate a single paper sheet from the paper in the paper holder for supply to the printhead.
34. A printing and display device as claimed in claim 1 further comprising:
a flat panel display for displaying images from a computer; and
a printer, the printer including at least two the printheads, the printheads being disposed on either side of a path through which print media is fed for printing, thereby enabling substantially simultaneous printing of both sides of the print media.
35. A printing and display device as claimed in claim 1 being configured to receive documents to be printed from a computer system, the printing and display device including an interface, and being configured to:
receive, via the interface, input from a user indicative of a print command;
send, from the printing and display device to the computer system, a print request;
receive, from the computer system and in response to the print request, a document to be printed; and
print the document.